

THE MARIOTTI CENTER (JMMCenter)

CREATED BY INSU IN 2000

MISSIONS

- Fulfill the software needs generated by the new interferometric developments, especially the VLT
- Rationalize and control as far as possible the processing of interferometric signal
- Set the user in an optimal operational position
- Service and formation

STRUCTURE

LABORATORY WITHOUT WALLS WITH 2 POLES FOR THE SERVICE

LABORATOIRE WITHOUT WALLS

Network of interferometric experts from 10 french
laboratories → Working groups

- Prospective
- Research
- Formation

POLES FOR THE SERVICE JMMC/OCA and JMMC/OSUG

- Coding
- Documentation, Archiving, Maintenance,
- Support to users

SCIENTIFIC STRATEGY

- **Preparation of observations** → Feasability study
 - ASPRO: G. Duvert (LAOG)
 - CAL. CAT.: P. Berio (OCA)
- **Raw data processing** → Observables
 - AMBER+: A. Chelli (LAOG)
 - GI2T, PI: D. Mourard (OCA)
 - Scan. Systems: FLUOR/VINCI/MIDI+ (tbd)
 - PRIMA (tbd)
- **Models**: A. Chelli (LAOG)
- **Image reconstruction**: E. Thiebaud (CRAL)
- **Software environment**: P. Valiron (LAOG)
- **Other topics of interest**
 - New VLT instruments
 - OHANA
 - Dark fringe → DARWIN

DELIVERABLES

- **ASPRO: Preparation of observations**
(delivering dates: 10/2001-3/2002-12/2002)
 - Select interfero. (VLT/IOTA/PTI/CHARA/etc...)
 - Compute UV coverage
 - Simulate any user analytic object model
 - Compute observables SNR
 - Compute user model parameter errors
 - Expert module for calibrator research
- **Calibrator Catalog** → delivering date: 4/2002
 - For any interferometer, any wavelength
- **Models** → 2003
 - Visibility, Closure and diff. phase constraints
- **Image Reconstruction** → 2003/2004

MANPOWER

- Investigators: 3.5 men/yr
- Engineers: 3 men/yr (not provided yet)

STATUS OF THE JMMC PRODUCTS

- *A priori* only for french community
- Access to other communities subject to collaboration agreement

INTERNATIONAL COLLABORATIONS

- JMMC opened to international collaborations
- JMMC support the creation of a European Center